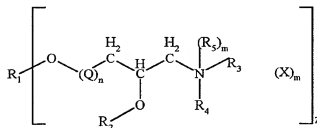


# AMINE AND QUATERNARY AMMONIUM SALT DERIVATIVES OF GLYCIDYL ETHERS AND GLYCIDYL ESTERS

## ABSTRACT OF THE DISCLOSURE

A composition of matter is disclosed comprising a compound of the structural formula:



wherein

$\text{R}_1$  is  $\text{C}_8$  to  $\text{C}_{22}$  alkyl,  $\text{C}_8$  to  $\text{C}_{22}$  alkenyl,  $\text{C}_8$  to  $\text{C}_{22}$  ester alkyl,  $\text{C}_8$  to  $\text{C}_{22}$  ester alkenyl,  $\text{C}_8$  to  $\text{C}_{22}$  amido alkyl, or  $\text{C}_8$  to  $\text{C}_{22}$  amido alkenyl;

$\text{Q}$  is  $\text{C}_p\text{H}_{2p}\text{O}$ ;

$n$  is an integer of from 0 to 60;

$p$  is an integer of from 2 to 4;

$\text{R}_2$  is hydrogen, alkyl or ester alkyl of from 1 to 22 carbon atoms, or  $\text{Q}_1$ ;

$\text{Q}_1$  is  $(\text{C}_p\text{H}_{2p}\text{O})_{n1}\text{H}$ ;

$\text{R}_3$  is hydrogen, alkyl of from 1 to 22 carbon atoms, or  $\text{Q}_2$ ;

$\text{Q}_2$  is  $(\text{C}_p\text{H}_{2p}\text{O})_{n2}\text{H}$ ;

$\text{R}_4$  is hydrogen, alkyl of from 1 to 22 carbon atoms, or  $\text{Q}_3$ ;

$\text{Q}_3$  is  $(\text{C}_p\text{H}_{2p}\text{O})_{n3}\text{H}$ ;

$\text{R}_5$  is hydrogen, alkyl of from 1 to 22 carbon atoms, oxigen, betaine, amido amine, polyamine, polyamine alkoxylate, fatty amine, or  $\text{Q}_4$ ;

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$Q_4$  is  $(C_pH_{2p}O)_{n_4}H$ ;

$n_1$ ,  $n_2$ ,  $n_3$ , and  $n_4$  are independently selected from the group consisting of integers of from 1 to 60;

$X$  is a counterion selected from the group consisting of species generated from mineral or organic acids;

$m$  is 0 or 1; and

$z$  is 1 to 4.

Methods of making the composition and articles containing it are also disclosed.